

## 2 WHAT'S NEW

Requirements §201.6(d)(3): A local jurisdiction must review and revise its plan to reflect changes in development, progress in local mitigation efforts, and changes in priorities, and resubmit it for approval within 5 years in order to continue to be eligible for mitigation project grant funding.

The 2005 Placer County Multi-Hazard Mitigation Plan contained a risk assessment of identified hazards for the Placer County Planning Area and a mitigation strategy to address the risk and vulnerability from these hazards. Since approval of the plan by FEMA, much progress has been made by Placer County and all participating communities on implementation of the mitigation strategy. This section of the plan update details new analyses and information included in this plan update and highlights those mitigation successes.

## 2.1 What's New in the Plan Update

As part of its 2005 Mitigation Strategy, Placer County and participating jurisdictions recognized that certain data, if available, would enhance the analyses presented in the risk assessment and utilized in the development of the mitigation strategy. For example, as identified in the 2005 plan, a large effort was recently undertaken to map, in GIS, critical facilities throughout the planning area. This allowed additional analysis to be completed during this plan update to identify those critical facilities vulnerable to the impacts of certain hazards. This new data and associated analysis provided valuable input for the development of the mitigation strategy presented in Section 5.0 of this plan.

New information and analyses contained in this plan update includes the following:

- A new assessment of hazards affecting the Placer County Planning Area was completed resulting in the inclusion of three additional hazards: extreme temperatures, pandemics/epidemics, and seiche.
- The addition of annexes to the plan for all other participating jurisdictions. Using this format, the Placer County planning area and unincorporated Placer County are addressed in the base plan and details specific to participating jurisdictions are included in their own annexes. This new format recommended in the 2008 Multi-Hazard Mitigation Planning Guidance resulted in the inclusion of more data for each jurisdiction and provided a better assessment of how the risk from identified hazards varies across the planning area.
- An entire rework of the risk assessment for each identified hazard. This included reworking the hazard profile and adding new hazard events occurrences; redoing the entire vulnerability analysis to add items identified below and updating the vulnerability assessment based on more recent hazard data as well as using the most current parcel and assessor data for the existing built environment.
- An expansion of the flood hazard analysis to include an analysis of the 500-year flood and an analysis of the localized/stormwater flooding problem affecting the planning area. Also included in this section is an inventory of levees within the planning area that may have an

- affect on the upcoming Digital Flood Insurance Rate Map (DFIRM) process as well as affecting the potential and nature of future flood events.
- An enhanced vulnerability assessment which added an inventory of critical facilities by jurisdiction and analysis of critical facilities vulnerable to two priority hazards: flood and wildfire.
- An enhanced vulnerability assessment which added an analysis of populations vulnerable to two priority hazards: flood and wildfire.
- Also, as required by the 2008 planning guidance, an analysis of each jurisdictions' ongoing and continued compliance with the NFIP, and where applicable, the CRS program.

## 2.2 2005 LHMP Mitigation Strategy Status and Successes

Placer County and its various communities have been very successful in implementing actions identified in the 2005 LHMP Mitigation Strategy, thus, working diligently towards their meeting their 2005 goals of:

- Preventing Future Hazard Related Losses of Life and Property
- Increasing Public Awareness/Action of Vulnerability to Hazards
- Improving Community Emergency Services/Management Capabilities

The 2005 mitigation strategy contained 54 separate mitigation actions benefiting one or more communities within the Placer County Planning Area. Of these 54 actions, ?? have been completed or are ongoing. ??? have not yet been started due to a variety of reasons such as changes in priorities, lack of funding, or changes to the projects themselves. Because many of these projects, such as the various fuels management projects, are implemented on an annual or other continuous basis and some of the projects have yet to be funded or have otherwise not been initiated, ??? projects have been identified for inclusion in this plan update.

For example, Does anyone have a recommendation for highlighting one of the below projects and detailing why it has been such a success in mitigating the risk and vulnerability from identified hazards???

Table 2.1 provides a status summary of the mitigation action projects from the 2005 LHMP. Following the table is a detailed description of the status of each project.

Table 2.1 Placer County's 2005 LHMP Update: Mitigation Action Status Summary

Jurisdiction/Hazard/Action	Complete	Ongoing	Not yet Started	Project in 2009 LHMP Update
Placer County				
Wildfire				
Action #1 – Develop a Community Wildfire Prevention Plan (CWPP) for the Western Slope of Placer County.	Х	Х		Yes
Action #2 – Maintenance on Shaded Fuel Breaks and Demonstration Fuel Breaks.		Х		Yes

Jurisdiction/Hazard/Action	Complete	Ongoing	Not yet Started	Project in 2009 LHMP Update
Action #3 – Annual Defensible Space Inspections Program in the Unincorporated County.		Χ		Yes
Action #4 – Ongoing County Chipper Program Operation Funds.		Χ		Yes
Action #5 – Establish Additional Fire Safe Councils on the Western Slope.		Χ		Yes
Action #6 – Enhance Enforcement of County Building Codes to Increase Compliance with SB 1369 Defensible Space and Other Fire Safe Requirements in the Unincorporated County.		X		Yes
Action #7 – Ensure That All Homes in the Placer County Foothills have PRC 4290 Compliant Address Signs.				
Action #8 – Modify County Code (UBC) to Require Class A Roofing Assembly on a Countywide Basis.	X			No
Action #9 – Develop the Following GIS Layers for Emergency Services within Placer County: Fire Ignitions Layer, Critical Facilities Layer, and Fire Hydrants/Water Sources layer.	Х	X		No
Action #10 – Develop and Fund an Enforceable Weed Abatement Ordinance.				
Action #11 – Add an Exit from Eastbound Interstate 80 onto Cape Horn Road for use by Emergency Vehicles Only.			X	No
Flood				
Action #12 – Elevate remaining 95 Homes in the Dry Creek Watershed.			Х	Yes
Action #13 – Pursue Regional Detention and Retention Projects Within the Dry Creek and Cross Canal Watersheds.	Х	Х		Yes
Action #14 – Implementation of Identified Bridge and Culvert Replacement Projects.		Х		Yes
Action #15 – Elevate Highway 89, Lake Tahoe Area, in Two Places.			Х	Yes
Action #16 – Upgrade of Flood Warning System to Include Additional Gage Locations and Flood Forecasting Capabilities.		Х		Yes
Action #17 – Update Hydrology and Hydraulic Models within the Critical Dry Creek and Cross Canal watersheds.		Χ		Yes
Agricultural				
Action #18 – Develop a Noxious Weed Ordinance.			Х	No
Action #19 – Continue and Maintain Noxious Weed Eradication Program.		X		Yes
Other				

Jurisdiction/Hazard/Action	Complete	Ongoing	Not yet Started	Project in 2009 LHMP Update
Action #20 – Research, Develop, and Conduct a Multi-Hazard, Seasonal Public Awareness/Education Program that Provides Citizens and Businesses with Accurate Information Describing the Risk and Vulnerability to Natural Hazards as well as Measures for Mitigating the Effects of Identified Risks.				Yes
Placer County Fire Chief's Association				
Action #1 – Cooperative Fire Service Response Agreement for the Western Side of all Placer County Fire Agencies.		Х		Yes
Action #2 – Annual Multi-Agency Wildland Fire Drill.		Χ		Yes
Action #3 – Acquisition and Implementation of an Additional Command Frequency for Fire Dispatch on the Western Slope.		Х		Yes
Placer County Office of Education				
Action #1 – Purchase NOAA weather radios for all district sites.				
Action #2 – Install E-POP notification at all Placer County Office of Education sites and all School/District Sites.				
Action #3 – Improve Community Emergency Management Capability: Communication Systems for incident Command Team; Crisis Response Boxes and Materials; Portable Command Center.				
City of Auburn				
Action #1 – Completion of the Private Lands Portion (within the City of Auburn) of a Multi-Jurisdictional Shaded Fuel Break on Public/Private Lands along the Interface of the American River Canyon and the City of Auburn.		Х		Yes
Action #2 – Residential Home Inspections for Compliance of Fire Safe Standards; Defensible Space.		Х		Yes
Action #3 – Public Education of the Results of a Wildfire in a Community and What Can Be Done by Citizens in Developing Safeguards.		Х		Yes
Action #4 – Maintenance of the Private Lands Portion of the Shaded Fuel Break along the Rim of the American River Canyon and the Auburn State Recreation Area (ASRA).		X		Yes
Action #5 – GIS Based Mapping of Pertinent Information that can be Used by All Agencies in the Development of Pre-Planning and During Emergency Incidents.		Х		Yes
Action #6 – Implementation of Storm Water Treatment Plan.		Χ		Yes
Action #7 – Electric Street Diversion Project.		Х		Yes
Action #8 – Old Town Auburn storm drain system.		Х		Yes
Action #9 – Identify the Unreinforced Masonry Buildings in Compliance with California State Law and the UCBC.	X			No
City of Colfax				

Jurisdiction/Hazard/Action	Complete	Ongoing	Not yet Started	Project in 2009 LHMP Update
Action #1 – City of Colfax – Continue Annual Weed Abatement Ordinance Enforcement.				
Action #2 – City of Colfax – Obtain Funding for a Residential Fire Protection Program.				
Action #3 – City of Colfax – Evaluate the Need and Feasibility of Improving Fire Prevention for the Historic Business District.		X		Yes
City of Lincoln				
Action #1 – Flood Warning Program – System Implementation and Utilization.		X		Yes
Action #2 – State Route 65: Auburn Ravine Bridge – Reconstruct Bridge.			Χ	Yes
Action #3 – State Route 193: Auburn Ravine Bridge – Additional 110' span.			Х	Yes
Action #4 – Regional Volumetric Mitigation Basin – Phase 2.	Х			No
Action #5 – Regional Volumetric Mitigation Basin – Phase 3.	Х			NO
Action #6 – Lakeview Farms Regional Volumetric Mitigation Facility.		Х		Yes, as modified
Action #7 – North Lincoln Regional Detention Basin Improvements – phase 1.			Х	No
Action #8 – Gladding Parkway, State Route 65, McCourtney Road Stream Restoration and Culvert Improvements.		Х		Yes
Action #9 – "O" Street Drainage Improvements.		Х		Yes
Action #10 – 7 <sup>th</sup> Street Drainage Improvements.			Х	Yes
Action #11 – Auburn Ravine at State Route 193 Bridge.			Х	Yes, as modified
Action #12 – Auburn Ravine at State Route 65 Bridge.			Х	Yes, as modified
Action #13 – Auburn Ravine at Joiner Parkway and Union Pacific Railroad bridges.			Х	No
Action #14 – Ingram Slough – Orchard Creek Return Channel.		Χ		Yes
Action #15 – Markham Ravine – Updated FEMA Analysis and Mapping.		Х		Yes
Action #16 – Markham Ravine drainage improvements – Union Pacific Railroad and State Route 65 crossings.			Х	Yes
Action #17 – Auburn Ravine Stream Restoration Projects (analysis and repairs).			Х	Yes
Action #18 – Markham Ravine Streambed Restoration Projects (analysis only).			Х	Yes
Action #19 – Coon Creek streambed Restoration Projects (analysis only).			Х	Yes
Town of Loomis				

Jurisdiction/Hazard/Action	Complete	Ongoing	Not yet Started	Project in 2009 LHMP Update
Action #1 – Raise Flood-Prone Houses along Loomis	Complete	Oligoling	Starteu	Opuate
Creek.				
City of Rocklin				
Action #1 – GIS Based Mapping of Pertinent Information that can be Used By All Departments and Agencies in the Development of Pre-planning and During Emergency Incidents.				
Action #2 – Implementation of Storm Water Treatment Plan.				
Forest Hill Fire Department				
Action #1 – Foresthill Biomass Project.		Х		Yes
Action #2 – Todd Valley Evacuation Plan – Foresthill Fire Protection District (FFPD) and Cooperative Agencies.	Х	Х		No
Action #3 – Assess and Enhance Foresthill Fire Protection District (FFPD) New Subdivision, Hazard Fuels Clearing, and Maintenance Ordinance. Put Programs in Place with Homeowners Associations in CC&R's and Maintenance Contracts.	X	Х		Yes
Action #4 - Todd Valley Shaded Fuel Break.	Х	Χ		Yes
North Tahoe Fire Protection District				
Action #1 – Completion of Fuels Management Projects on Various Parcels in the North Tahoe Fire Protection District, as Outlined in the North Tahoe Community Fire Protection Plan.		X		Yes
Placer County Water Agency				
Action #1 – Maintain and Enhance Canal Systems by Converting Earthen Canals to Gunite-Lined Canals in Critical Areas.		Х		Yes
Action #2 – Replace Wooden Flume Structures with Steel Structures.			Х	Yes
Action #3 – De-silt Reservoirs.		Χ		Yes
Placer Hills Fire Protection District				
Action #1 – Assess and Enhance Placer Hills Fire Protection District Onsite Water Requirements for Minor Lot Splits.		Χ		Yes
Action #2 – Annual Defensible Space Inspections Program for the Placer Hills Fire Protection District.		Х		Yes
Squaw Valley Public Service District				
Action #1 – Increased Staffing of Fire Personnel to Provide Greater Community Service.	Х			No
Action #2 – Develop a Community-Wide Emergency Notification System Capable of Providing Information to Both Residents and Visitors by Utilizing Permanent, Roadside Changeable Message Boards and a low-Power Radio Transmitter.			X	Yes
Sierra Joint Community College District				

	Complete	Ongoing	Not yet Started	Project in 2009 LHMP Update
Action #1 – Fire Prevention in 100+ Acres Nature Area.		Χ		Yes
Action #2 – Improved emergency Response Capabilities Through an Up-To-Date Crisis Response Plan and Multi- Jurisdictional Training Drills.		Х		Yes

### **Placer County**

#### Wildfire Actions

Action #1 - Develop a Community Wildfire Prevention Plan (CWPP) for the Western Slope of Placer County

**Progress to date:** The Western Slope CWPP was completed and accepted by the Placer County Board of Supervisors on March 23, 2008.

Were any significant barriers or problems encountered? None.

What aspects made the action effective or successful? CAL FIRE, local fire agencies, and each organization affected by the CWPP played an active roll in the identification and prioritization of the CWPP projects.

Should the task be changed or revised? What further actions are planned (if any)? The CWPP will be reviewed and updated as needed (or every two years). We may consider keeping the CWPP in the Plan as "To be reviewed and updated as needed every two years to reflect changing priorities or additional projects."

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved?

Additional comments or information:

#### Action #2 - Maintenance on Shaded Fuel Breaks and Demonstration Fuel Breaks

**Progress to date:** Two demonstration fuel breaks were created and maintained. One along Placer Hills Road in the community of Meadow Vista and one on BLM property on Foresthill Road, Foresthill.

Were any significant barriers or problems encountered? One demonstration site was permanently removed along Placer Hills Road related to the Winchester Subdivision required improvements. The Foresthill BLM site is maintained by BLM through the use of scheduled prescribed burns, hand clearing, and use of animals.

What aspects made the action effective or successful? CAL FIRE, USFS, Foresthill Fire Department, and Foresthill Fire Safe Council continue to play an active role in the maintenance

activities on the demonstration site as well as actively promote community fuel breaks through tours, onsite workshops, and passive signs as planned by the partnership.

Should the task be changed or revised? What further actions are planned (if any)? No. Maintenance is integrated into BLM activities for this site and planned workshops are part of the outreach program promoted by the partnership.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes

Additional comments or information:

Action #3 - Annual Defensible Space Inspection Program in the Unincorporated County.

**Progress to date:** A total of 4,365 PRC 4291 Inspections were performed in 2007.

Were any significant barriers or problems encountered? Funding is the most significant barrier; in 2007/2008 a shortfall of \$100,000 is expected.

What aspects made the action effective or successful?

Should the task be changed or revised? What further actions are planned (if any)?

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? The inspection process is an ongoing, yearly program. It should continue to be an ongoing program as listed in the document.

Additional comments or information:

**Action #4 - Ongoing County Chipper Program Operational Funds** 

**Progress to date**: A total of 15,403 parcels produced 27,493 tons of chips from January 2005 to date. Residents provided 11,787 hours of their labor to remove unwanted vegetation from their properties.

Were any significant barriers or problems encountered? None

What aspects made the action effective or successful? CalFire, local fire agencies, and local Fire Safe Councils played an active role in the outreach effort. Word of mouth also played a role in encouraging neighbors to reduce their fuel load.

Should the task be changed or revised? What further actions are planned (if any)? This task is very successful and should be kept in the plan. Annual funding is necessary for continued success.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes

**Additional comments or information:** Operational funds from grants are the primary source of revenue for this increasingly popular project. When combined with the PRC 4291 activity, local residents have a very effective way of providing community protection. Grant funding will not sustain this project. Other more permanent sources must be found.

#### Action #5 - Establish Additional Fire Safe Councils on the Western Slope.

**Progress to date:** The Ponderosa FSC has been realigned to include areas up to the Emigrant Gap area. The name was also changed to "Placer Sierra Fire Safe Council."

Were any significant barriers or problems encountered? Getting the public to volunteer is always a difficult task. Once the public knew the advantages of this type of organization they were eager to volunteer their time and effort.

What aspects made the action effective or successful? The PSFSC is made up of local citizens that are very eager to work to keep their communities fire safe. They were very active in community education and project development planning.

Should the task be changed or revised? What further actions are planned (if any)? There are other areas in Placer County that can benefit from new FSC's. The expansion of the Greater Auburn Area Fire Safe Council to include the areas of Newcastle and Penryn, as well as expansion into Granite Bay and the Rural Lincoln Area is being considered.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes

#### Additional comments or information:

Action #6: Enhance Enforcement of County Building Codes to Increase Compliance with SG 1369 Defensible Space and Other Fire Safe Requirements in the Unincorporated County

**Progress to date:** Placer County has implemented building codes to ensure consistency with the requirements of SB1369. All permits applied for on all new buildings including commercial, one and two family dwellings and detached buildings must comply with the new 2007 CBC Chapter 7A standards. New buildings located in any Fire Hazard Severity Zone within SRA or any Wildland Urban Interface fire area designated by the enforcing agency for which an application for a building permit is submitted, shall comply with standards set for roofing, attic ventilation, exterior walls, decking floors, underfloors, and defensible space.

The Placer County Building Department implemented a WUI policy in January 2008 outlining the requirements and responsible enforcing authorities. Applicable construction, as of January 2008, has been reviewed and inspected to the WUI standards.

Were any significant barriers or problems encountered? Limited barriers were posed predominately founded in the area of complying products and listing of such. CAL FIRE's website, and other resources, have been effective in overcoming this hurdle.

Additional public outreach may have reduced the "surprise" element with local builders and design professionals.

What aspects made the action effective or successful? Placer County Fire, CAL FIRE, local fire agencies and each organization affected are applying the new standards to increase the effects of defensible space and reduce catastrophic wildfires. The most effective actions might have been the training component. With any new law or policy, training is the key element with respect to the overall effectiveness of the subject.

Clear and concise defensible-space handouts have guided the public appropriately.

**Should the task be changed or revised?** What further actions are planned (if any)? No further actions planned at this time. No changes required.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved?

Additional comments or information:

Action #7 – Ensure that all Homes in the Placer County Foothills have PRC 4290 Compliant Address Signs.

**Progress to date:** 

Were any significant barriers or problems encountered?

What aspects made the action effective or successful?

Should the task be changed or revised? What further actions are planned (if any)?

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved?

**Additional comments or information:** 

**Action #8** - Modify County Code (UBC) to Require Class A Roofing Assembly on a Countywide Basis.

**Progress to date**: The Placer County Board of Supervisors passed Ordinance 546-B on or about March 2007 thereby requiring Class A roofing/assembly in the unincorporated portions of the County.

New buildings located in any Fire Hazard Severity Zone within SRA or any Wildland-Urban Interface fire area designated by the enforcing agency for which an application for a building permit is submitted, shall comply with standards set for roofing, attic ventilation, exterior walls, decking floors, underfloors, and defensible space.

Were any significant barriers or problems encountered? None.

What aspects made the action effective or successful? Prior Class A restrictions educated consumers, making this enhancement somewhat expected.

**Should the task be changed or revised?** What further actions are planned (if any)? No change is necessary, and no further action is necessary.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? No

#### Additional comments or information:

Action #9 – Develop the Following GIS Layers for Emergency Services Within Placer County: Fire Ignitions Layer; Critical Facilities Layer; and Fire Hydrants/Water Sources Layer.

**Progress to date:** The GIS project was awarded to VESTRA Resources in Sept 2007 to develop the GIS datasets and layers noted above. The project is being completed concurrently in conjunction with the LHMP updating project. The GIS project collected and developed the most current datasets for the fire ignition layer, and critical facilities layer, and approx. 80 to 90 percent of the fire hydrants layer. The remaining outstanding fire hydrant datasets are being developed by two participating agencies who anticipate releasing the completed work to the project team to add with the other completed datasets by March 2009.

Were any significant barriers or problems encountered? Significant challenges included collecting the most current dataset from each of the participating agencies. The majority of the agencies had the datasets needed, but most were either in older format such as CAD, maps, or charts, which needed to be converted to the current GIS format.

The second challenge was each agencies concerns for the security and sensitive issues regarding the release and collection of the datasets for use and theavailability of the information to the public (i.e. locations of dams, hydroelectric generating stations, power transferring stations, rail lines, pipelines and associated switching/lifting stations, etc.).

The third challenge was ascertaining the currency and accuracy of the readily available information through open sources (i.e. location of police and fire stations, hospitals, schools, etc.). Although the contractor was able to obtain a sizeable volume of datasets through open sources such as the internet and agency/organization website, the majority of the info had to be thoroughly reviewed and analyzed to ensure accuracy and currency.

What aspects made the action effective or successful? PCOES and County GIS staff supporting the project worked closely and effectively with the contractor (VESTRA) to collect,

review, verify, compile, and develop the GIS layers. PCOES assumed the overall project lead and primary role in contacting the agencies/organizations located in Placer County to request the needed datasets. The contractor served in the lead role to search, find, verify, compile, and or develop datasets available through open sources. County GIS staff provided technical supports, review, and assisted in the development of the GIS datasets and layers.

Should the task be changed or revised? What further actions are planned (if any)? The developed GIS datasets and layers for the updated LHMP plan will be maintained and reviewed by PCOES and County CDRA GIS unit. The maintenance and update ensures the information is current and readily available for future LHMP plan update.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? No

Additional comments or information:

Action #10 - Develop and Fund an Enforceable Weed Abatement Ordinance

**Progress to date:** 

Were any significant barriers or problems encountered?

What aspects made the action effective or successful?

Should the task be changed or revised? What further actions are planned (if any)?

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved?

**Additional comments or information:** 

Action #11 - Add an Exit from Eastbound Interstate 80 onto Cape Horn Road for Use by Emergency Vehicles Only.

**Progress to date:** 

Were any significant barriers or problems encountered?

What aspects made the action effective or successful?

Should the task be changed or revised? What further actions are planned (if any)?

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved?

#### **Flood Actions**

#### Action # 12 - Elevate Remaining 95 Homes in Dry Creek

**Progress to date:** Since update provided in August 2006 – no change or specific progress has been made. This project is being re-studied as part of Action #17 and recommendations regarding pursuing the matter further and funding it will appear in the updated Dry Creek Watershed Flood Control Plan to be completed in fall 2008.

Were any significant barriers or problems encountered? Yes. Available funding and homeowner interest in cost sharing remain a concern. Funding of \$6 million necessary is not available within Dry Creek Trust Fund and would likely only be available thru Federal or State grant sources.

What aspects made the action effective or successful? We believe the updated Dry Creek Watershed Flood Control Plan will provide effective direction on when and how to proceed with implementing this project, and where other potential funding sources may be available.

**Should the task be changed or revised? What further actions are planned (if any)?** No. A more realistic schedule is within 5 years instead of 3 years.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes. It could be improved by following recommendations identified for this project in the new Dry Creek Watershed Flood Control Plan.

#### **Additional comments or information:**

Action #13 - Pursue Regional Detention and Retention Projects Within the Dry Creek Watershed and Cross Canal Watershed.

**Progress to date:** Completed construction of \$5 million Miners Ravine off-channel detention Basin Facility within Dry Creek watershed in September 2007 utilizing Dry Creek Trust Fund and \$1 million of State aid. Currently applying for State grant aid for the propose Scilacci Farms Flood and Conservation Easement project in the Cross Canal Watershed along Coon Creek.

Were any significant barriers or problems encountered? The grant application for Scilacci Farms under Prop 84 DWR Flood Corridor Protection Program was recently denied funding. Staff is researching additional grant opportunities for Scilacci Farms from other State programs. Land cost for easements at \$3,300 per acre are prohibitive.

What aspects made the action effective or successful? The multi-objective nature of Miners Ravine Off-Channel Detention Basin helped secure State grant funding. Local Funding from Dry Creek Trust Fund in the amount of \$4 million was helpful, however this fund is now depleted and funding plan changes are being studied.

Should the task be changed or revised? What further actions are planned (if any)? No. Action #17 will result in new regional projects being identified and funding sources suggested when Dry Creek Watershed Flood Control Plan is updated and finalized in fall 2008.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes. Make reference to the completed multi-objective regional flood facility being completed on Miners Ravine, but that more projects are needed to meet mitigation goals.

#### Additional comments or information:

Action #14 – Implementation of Identified Bridge and Culvert Replacement Projects. 11 Recommended Projects.

**Progress to date:** One high priority bridge replacement is under construction (Barton Rd at Miners Ravine). One high priority culvert addition completed for Sierra College Blvd at Miners Ravine. Three bridge replacements in design Dowd Road at Coon Creek, Yankee Slough and Miners Ravine.

Were any significant barriers or problems encountered? Availability of local and State/Federal funds.

What aspects made the action effective or successful?

Should the task be changed or revised? What further actions are planned (if any)? No. The on-going update to the District's Dry Creek Watershed Flood Control Plan will help identify and prioritize recommended bridge and culvert replacement projects. The new plan should be completed by fall 2008.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes. Specific funding options should be presented.

**Additional comments or information:** 

Action #15 – Elevate Highway 89 in Two Places.

**Progress to date:** None, CAL Trans would need to consider implementing this project. Based on recent conversations with their Marysville design group, they are not aware of this project's need.

Were any significant barriers or problems encountered? CAL Trans completed road drainage improvements this in the summer of 2008 and did not include the scope of this work in their project – a missed opportunity.

What aspects made the action effective or successful? N/A

Should the task be changed or revised? What further actions are planned (if any)? It's unrealistic to assume the project will be implemented unless the County makes an effort to discuss the need with CAL Trans.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes, improve communications between County and CAL Trans.

#### Additional comments or information:

Action #16 – Upgrade of Flood Warning System to Include Additional Gage Locations and Flood Forecasting Capabilities.

**Progress to date:** Six of seven gages proposed were installed and made operational in 2007/2008. This brings the total number of gages in the system to 52.

Were any significant barriers or problems encountered? Obtaining required agency permits prior to installation of gages from NOAA fisheries and DFG was a barrier. Excessive cost of calibrating and developing effective flood forecasting software was a barrier.

What aspects made the action effective or successful? Close coordination and cooperation with the Districts other member agencies helped identify good gage siting, funding, and permitting.

Should the task be changed or revised? What further actions are planned (if any)? No, addition of new gages is always a benefit to the system and improves forecasting and data availability. Flood forecasting capability can be improved in future with purchase and operation of calibrated flood forecasting system software. District staff continues to research software options.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes, more research into existing flood forecasting software options is needed so that a good purchase recommendation can be made. References from software owners recommended. Funding sources needed.

#### Additional comments or information:

Activity #17 – Update Hydrology and Hydraulic Models within Dry Creek and Cross Canal Watersheds.

**Progress to date:** The on-going updated/re-study of the Dry Creek Watershed Flood Control Plan due in fall 2008 will include new and vastly improved H & H models for the Dry Creek Watershed. There has been no significant new models for the Cross Canal Watershed other than for lower Coon Creek as produced by Civil Solutions Inc.

Were any significant barriers or problems encountered? For the Dry Creek model update, coordination from our member agencies in gathering updated information for input into the model was critical.

What aspects made the action effective or successful? For the Dry Creek model update, coordination from our member agencies in gathering updated information for input into the model was critical.

Should the task be changed or revised? What further actions are planned (if any)? No, District TAC should discuss how and when to fund and perform model updates for Cross Canal.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes.

Additional comments or information:

#### **Agricultural Actions**

**Action # 18 – Develop a Noxious Weed Ordinance** 

**Progress to date:** None

Were any significant barriers or problems encountered? See below.

What aspects made the action effective or successful? See below.

**Should the task be changed or revised? What further actions are planned (if any)?** The Placer County Agriculture Department does not wish to pursue a Noxious Weed Ordinance at this time. There is no immediate call or need for such an ordinance.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? N/A

**Additional comments or information:** The person who originally created this action item is no longer with the department, and the original intent in creating this item is not known. At this time, the Agriculture Department sees no reason to continue to pursue this item.

#### Action # 19 - Continue and Maintain Noxious Weed Eradication Program.

**Progress to date:** Significant progress has been made to eradicate small populations of noxious weeds in Placer County before they become established on a widespread basis.

Were any significant barriers or problems encountered? The single greatest barrier to the success of this program is the lack of continuous reliable funding. The majority of the funding for this project comes from state grants, which are often competitive, and may not be available from year to year.

What aspects made the action effective or successful? Our office has been actively involved in this activity since 2000, and has established an excellent systematic approach to complete our efforts each season.

Should the task be changed or revised? What further actions are planned (if any)? The program has been successful to date, and there is no need to change it at this time.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Complete weed eradication can be a 10+ year process. While we have seen complete eradication of specific weed populations, there are others that will need many more years of diligent work to complete.

Additional comments or information: To clarify the scope of this activity, our goal is to eradicate small populations of specific noxious weed species that are not currently established in Placer County, but do occur in small, isolated populations. Our intent is not to eradicate every noxious weed from the County. Specifically, we are not working to eradicate all Yellow Starthistle or Scotch Broom from the County. That would require resources far beyond what we have available.

Action #20 - Research, Develop, and Conduct a Multi-Hazard, Seasonal Public Awareness/Education Program that Provides Citizens and Businesses with Accurate Information Describing the Risk and Vulnerability to Natural Hazards as Well as Measures for Mitigating the Effects of Identified Risks.

**Progress to date:** 

Were any significant barriers or problems encountered?

What aspects made the action effective or successful?

Should the task be changed or revised? What further actions are planned (if any)?

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved?

## **Placer County Fire Chief's Association**

Action #1 - Cooperative Fire Service Response Agreement for the Western Side of all Placer County Fire Agencies.

**Progress to date:** An Agreement and an Operational Plan have been developed, adopted by the governing bodies of those agencies participating, and implemented. The Operational Plan has a component for annual review to identify changes that may be needed.

Were any significant barriers or problems encountered? No.

What aspects made the action effective or successful? The identified need of all fire services within Placer County (western slope) to work cooperatively in providing the highest level of services with the resources available.

Should the task be changed or revised? What further actions are planned (if any)? This will become an "on-going" project for changes and updates.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Not applicable at this time, on-going project.

Additional comments or information:

#### Action #2 - Annual Multi-Agency Wildland Fire Drill.

**Progress to date:** This exercise has been conducted each year. The exercise draws approximately 300 individuals from a 4-5 County Regional Area and includes Federal, State, and Local fire agencies. The exercise has incorporated NIMS as the planning framework and utilizes ICS as the exercise is conducted. This exercise also provides the opportunity of individuals to obtain certification/qualification for NIMS and ICS positions as per requirements.

Were any significant barriers or problems encountered? No significant barriers.

What aspects made the action effective or successful? The cooperative efforts and support of the Western Placer County Fire Chiefs Association, the Nevada County Fire Chiefs Association, and the Yuba County Fire Chiefs Association. In addition, the Bureau of Land Management (BLM) has been instrumental in providing grant funding for training to conduct the annual exercise.

Should the task be changed or revised? What further actions are planned (if any)? This is an "on-going" project, limited changes and updates.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Not applicable at this time, on-going project.

# Action #3 - Acquisition and Implementation of an Additional Command Frequency for Fire Dispatch on the Western Slope.

**Progress to date:** The acquisition of the command frequency has been secured and dedicated for use on the western slope. The development of a Communications Plan is in progress. The implementation has not yet occurred and will be done so concurrently with other schedule radio communication interoperability upgrades and changes.

Were any significant barriers or problems encountered? The lack of infrastructure in some cases is reason for delay. Identifying funding resources to upgrade infrastructure, technology, and radios has presented challenges.

What aspects made the action effective or successful? The cooperation and working together among the local agencies, Placer County, State of California, and CAL FIRE to obtain the command channel frequency.

Should the task be changed or revised? What further actions are planned (if any)? Task is to remain the same. Further action requires the agencies to obtain the necessary infrastructure to meet communication needs. Sources of grant funding are being used such as the DHS grant (formerly Fire Act).

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Not applicable at this time, on-going project.

## **Placer County Office of Education**

Action #1 - Purchase NOAA Weather Radios for All District Sites.

**Progress to date:** 

Were any significant barriers or problems encountered?

What aspects made the action effective or successful?

Should the task be changed or revised? What further actions are planned (if any)?

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved?

**Additional comments or information:** 

Action #2 –Install E-POP Notification at all Placer County Office of Education Sites and all School/District Sites.

**Progress to date:** 

Were any significant barriers or problems encountered?

What aspects made the action effective or successful?

Should the task be changed or revised? What further actions are planned (if any)?

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved?

Additional comments or information:

Action #3 – Improve Community Emergency Management Capability; Communications Systems for Incident Command Team; Crisis Response Boxes and Materials; Portable Command Center.

**Progress to date:** 

Were any significant barriers or problems encountered?

What aspects made the action effective or successful?

Should the task be changed or revised? What further actions are planned (if any)?

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved?

## **City of Auburn**

Action #1 - Completion of Private Lands of a Multi-Jurisdictional Shaded Fuel Break Project along the Interface of the American River Canyon Lands of Federal and Private Properties.

**Progress to date:** This project has been identified as an "on-going" project. Initial implementation contributed greatly to the success of the project; however, ongoing maintenance is the long term key to success of this project.

Were any significant barriers or problems encountered? No significant barriers. Work on public lands is limited during the year due to requirements of the Migratory Bird Act and application of project.

What aspects made the action effective or successful? Continued funding through the State of California (Proposition 40) enhances the project an provides in more result of project accomplishment.

Should the task be changed or revised? What further actions are planned (if any)? No change to the task other than identify as a continued maintenance project. Focus is still on project enhancement and obtaining funding for the project.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Not applicable at this time, on-going project.

Additional comments or information:

Action #2 - Residential Home Inspections for Fire Safe Standards and Defensible Space.

**Progress to date:** The City Fire Department continues to target specific areas throughout the City which have significant wildland urban interface exposure in an effort to reduce risk. Estimated that 20-35 residential inspections are performed each year.

Were any significant barriers or problems encountered? Staffing availability and heightened fire activity can sometimes delay or reduce the amount of inspections performed.

What aspects made the action effective or successful? Door-to-door personal contact with an educational approach.

Should the task be changed or revised? What further actions are planned (if any)? No changes to the plan continue with program as developed.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? This is an on-going project, to be included in all future plans.

Action #3 - Public Education Regarding Wildfire Preparedness.

**Progress to date:** The Greater Auburn Area Fire Safe Council developed and distributed 10,000 handouts with information on homeowner measures of protection against wildfire.

Were any significant barriers or problems encountered? None encountered.

What aspects made the action effective or successful? Grant funding from the project; Pacific Gas and Electric Company.

Should the task be changed or revised? What further actions are planned (if any)? Continue with similar projects every couple of years. Identify potential funding sources.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Include in the update plan as an on-going project.

Additional comments or information:

Action #4 - Maintenance of Private Lands Portion of the American River Canyon Shaded Fuel Break.

**Progress to date:** Refer to project #1.

Were any significant barriers or problems encountered? None.

What aspects made the action effective or successful? Refer to project #1.

Should the task be changed or revised? What further actions are planned (if any)? This project can be incorporated into Project #1.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Keep in plan, on-going project.

Additional comments or information:

**Action #5 - GIS Based Mapping of Pertinent Information.** 

**Progress to date:** GIS application and use continues to increase in use among all City departments.

Were any significant barriers or problems encountered? Staffing and funding to continue work on GIS projects.

What aspects made the action effective or successful? Contributions by the various City departments of information to be identified in the GIS.

Should the task be changed or revised? What further actions are planned (if any)? This is a continual project with a maintenance component to ensure GIS data is current. In addition, coordination and communication with other governmental agencies on GIS based data and information that can be obtained on a regional level to support all services.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes, an ongoing project.

**Additional comments or information:** 

Action #6 - Stormwater Management Plan (Implementation of Storm water Treatment Plan)

**Progress to date:** The Stormwater Management Plan was adopted in July 2003 by the Auburn City Council. The plan is a program that spans the years of July 1, 2003 through June 30, 2007. The City has implemented the majority of the plan, but still has another year to completely comply with the plan. The City expects another general permit issued by the Regional Water Quality Control Board that will span the next five years which will include additional requirements to be implemented by the City of Auburn.

Were any significant barriers or problems encountered? The management plan is comprehensive and without adequate funding the City's ability to finish the requirements in a timely manner is limited.

What aspects made the action effective or successful? The Stormwater Management Plan required the City to pass an ordinance which limits discharges to the stormwater infrastructure.

Should the task be changed or revised? What further actions are planned (if any)? The task will be a continual requirement of the City which is mandated by EPA.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved?

Additional comments or information:

#### Action #7 - Electric Street Diversion Project

**Progress to date:** In February 1997, the City released a Request for Proposals to engineering firms to solicit their expertise in examining the potential for the Electric Street Storm Water Diversion Project. City Council took action on June 9, 1997 and selected Spink Corporation to perform the detailed study and to make recommendations to City staff and City Council on how best to address the proposed diversion of storm water flows from the Electric Street Drainage Basin to the American River Canyon.

The designs by Spink Corporation were not intended to completely mitigate the Old Town historical flooding problem, but rather reduce the size of needed detention pond facilities to

provide 100 year flood protection for the Old Town Area. Ground water issues in the Ruby Street area will also be mitigated by providing a means of collecting and diverting ground water flow prior to affecting homes in the area.

Spink Corporation, in their Preliminary Design Report proposed four alternatives, with alternative number 3 being the design recommended by Spink and City Staff because it would have less impact to Highway 49 traffic. In June 2000 the Auburn Urban Development Authority authorized a contract with Spink for the engineering design of alternative 3 of the Electric Street Storm Water Diversion Project.

Were any significant barriers or problems encountered? The design element of the project is 75 to 85 percent complete. Due to land acquisition required by the project, Bureau of Land Management requirements, Union Pacific easement issues the total cost of the project far outstripped the budget for the project.

What aspects made the action effective or successful?

Should the task be changed or revised? What further actions are planned (if any)? The City of Auburn would like to pursue the completion of the design of the project and the construction of the project, but without adequate funding the project remains at a stalemate.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes, the project should be included in the updated plan.

**Additional comments or information:** 

#### Action #8 - Old Town Auburn Storm Drain System

**Progress to date:** The complete evaluation of this storm drain system has not been fully implemented due to funding constraints. However, portions of this system have been identified and repaired with other projects.

Were any significant barriers or problems encountered? The problems that the City has encountered are funding sources and the location of the system under historical buildings.

What aspects made the action effective or successful? Combining rehabilitation projects with existing infrastructure repairs.

Should the task be changed or revised? What further actions are planned (if any)? The City of Auburn would like to embark in a specific task designed to identify potential problems in the storm drain system prior to failure.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes, it should be included in the update plan.

Does your agency have a suggestion(s) for a new mitigation action or project for the plan update?

## **Action #9 - Identify Unreinforced Masonry Buildings**

**Progress to date:** Buildings identified.

Were any significant barriers or problems encountered? No.

What aspects made the action effective or successful? Sanborn Maps.

Should the task be changed or revised? What further actions are planned (if any)? To place identified buildings into GIS.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes, for future grant opportunities.

## **City of Colfax**

Action #1 - Continue Annual Weed Abatement Ordinance Enforcement.

**Progress to date:** 

Were any significant barriers or problems encountered?

What aspects made the action effective or successful?

Should the task be changed or revised? What further actions are planned (if any)?

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved?

Additional comments or information:

Action #2 – Obtain Funding for a Residential Fire Protection Program.

**Progress to date:** 

Were any significant barriers or problems encountered?

What aspects made the action effective or successful?

Should the task be changed or revised? What further actions are planned (if any)?

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved?

**Additional comments or information:** 

Action #3 - Historic Business District Fire Protection Prevention

**Progress to date:** On going, pre-fire planning of Historic District continues as structures change, occupancy fluctuations, and upgrades to facilities are occurring.

Were any significant barriers or problems encountered? Not at this time.

What aspects made the action effective or successful? N/A

Should the task be changed or revised? What further actions are planned (if any)? Revised. The City has now implemented an ordinance which requires all new commercial business occupancies to have an approved Certificate of Occupancy inspection from its Building Official.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes, Fire Chief is working on the project.

## **City of Lincoln**

#### **Action #1 - Flood Warning System**

**Progress to date:** Rainfall/stream gauge monitoring: 80 percent complete. Rain/stream recording gauge installation: 50 percent complete.

Were any significant barriers or problems encountered? No.

What aspects made the action effective or successful? To gather more accurate rainfall data; make better flood potential forecasts; and make proactive readiness preparations for significant storm events.

Should the task be changed or revised? What further actions are planned (if any)? The task should be revised with a time extension due to the need for the installation of another rain/stream gage (in the Auburn Ravine) and bringing City staff fully up-do-date on the data gathering and tracking process; and the making of early flood warning forecasts and emergency flood response preparations.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes, this project should be included in the updated plan. This plan can be improved by: installing another rain/stream gage (in the Auburn Ravine); training City staff on the rain data gathering and tracking process and utilization of the data; and training City staff in early flood warning forecasting and emergency flood response preparations.

#### **Additional comments or information:**

Action #2 - State Route 65: Auburn Ravine Bridge - Reconstruct Bridge

**Progress to date:** None.

Were any significant barriers or problems encountered? State Route 65 is currently State right-of-way. A quitclaim to Lincoln will not happen until after completion of the SR 65 Bypass Project, which is anticipated for completion in 2012.

What aspects made the action effective or successful? Nothing yet.

Should the task be changed or revised? What further actions are planned (if any)? The time frame for completion should be revised to 2015.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes, the project should be included in the updated plan with an anticipated completion date of 2015.

**Additional comments or information:** 

Action #3 - State Route 193: Auburn Ravine Bridge - Additional 110-ft Span

Progress to date: None.

Were any significant barriers or problems encountered? A portion of State Route 193 that includes the bridge is currently State right-of-way. A quitclaim to Lincoln will not be complete until a reimbursement agreement for repair of SR 193 is executed by the City and the State.

What aspects made the action effective or successful? Nothing yet.

Should the task be changed or revised? What further actions are planned (if any)? The time frame for completion should be revised to 2012.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes, the project should be included in the updated plan with an anticipated completion date of 2012.

Additional comments or information:

Action #4 - Regional Volumetric Mitigation Basin - Phase 2

Progress to date: Completed

Were any significant barriers or problems encountered? No.

What aspects made the action effective or successful? Its ability to provide 550 acre-feet of additional storage on Coon Creek.

Should the task be changed or revised? What further actions are planned (if any)? This task shouldn't be revised or changed.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? The action has been completed.

Additional comments or information:

Action #5 - Regional Volumetric Mitigation Basin - Phase 3

Progress to date: Completed.

Were any significant barriers or problems encountered? No.

What aspects made the action effective or successful? Its ability to provide 550 acre-feet of additional storage on Coon Creek.

Should the task be changed or revised? What further actions are planned (if any)? This task shouldn't be revised or changed.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? The action has been completed.

Additional comments or information:

Action #6 - North Lincoln Regional Volumetric Mitigation Improvements - Phase 1

**Progress to date:** N/A

Were any significant barriers or problems encountered? N/A

What aspects made the action effective or successful? N/A

Should the task be changed or revised? What further actions are planned (if any)? This task should be revised. This project was identified in draft plans for the City's General Plan. It was identified that the three phases of the current facility could not provide sufficient mitigation for the total development of the General Plan and the City would need a northern facility. The search for a potential site resulted in the purchase of and initiation of the Lakeview Farms regional volumetric mitigation facility. This mitigation will be provided at the Lakeview Farms Regional Volumetric Mitigation Facility. The title of this task should be changed to the Lakeview Farms Regional Volumetric Mitigation Facility.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? This action, under the revised title, should be included in the updated plan. The 320-acre facility, once constructed, will store storm water runoff, potentially for extended periods of time, to mitigate incremental runoff volume impacts resulting from conversion of ground to impervious surface by development. The facility will mitigate the 8-day, 100-year storm event extrapolated from the 1986 rainfall data. Phase I of the facility will store up to 1,050 acre-feet of storm water. Future phases could add as much as 2,500 acre-feet more of storage at the site.

Additional comments or information:

Action #7 - North Lincoln Regional Detention Basin Improvements - Phase 1

**Progress to date:** N/A

Were any significant barriers or problems encountered? N/A

What aspects made the action effective or successful? N/A

Should the task be changed or revised? What further actions are planned (if any)? This task should be revised to note that it has been superseded by the City's 50-year General plan. The City will now require detention improvements be provided on a village by village basis, rather than a north and south region basis.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? This action should not be included in the updated plan.

#### Additional comments or information:

Action #8 - Gladding Parkway, State Route 65, McCourtney Road - Stream Restoration and Culvert

**Progress to date:** Project design plans are at 98 percent complete. Bidding of the project and construction are anticipated for the Spring/Summer of 2009.

Were any significant barriers or problems encountered? Not yet.

What aspects made the action effective or successful? The aspects that make the project effective and/or successful are its ability to significantly reduce the flood risk to life and/or property.

Should the task be changed or revised? What further actions are planned (if any)? The task should revise the time for completion and the cost of the project.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? The action has not been completed and should be included in the updated plan. It can be improved by incorporating delineation of the floodplain from the limit of study on the Lower Markham Ravine to O Street.

#### Additional comments or information:

#### Action #9 - "O" Street Drainage Improvements

**Progress to date:** Re-channelization in the south tributary of the Markham Ravine channel as it meanders through the City will be necessary to reduce flooding potential in the adjacent subdivisions. The proposed channel will be widened and lowered to provide 100-year flood protection plus the applicable freeboard, reducing the flood frequency and risk in the "O" Street corridor, where flood models indicate many structures are at risk.

Were any significant barriers or problems encountered? No.

What aspects made the action effective or successful? Working with an engineering firm that understood the totality of the issues faced was very important.

Should the task be changed or revised? What further actions are planned (if any)? The task should be revised to show completion in 2010.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? The action should be included in the updated plan. The completion date needs to be revised to show completion in 2010.

#### Additional comments or information:

## **Action #10 - 7<sup>th</sup> Street Drainage Improvements**

**Progress to date:** Minimal. The City does intend to build a new trunk storm drain system, most likely down 7<sup>th</sup> Street.

Were any significant barriers or problems encountered? Yes. The biggest barrier right now is financing the project. Its construction cost alone is estimated to be in the \$2 to 3 million range.

What aspects made the action effective or successful? No action has been achieved yet, so this question is not applicable at this time.

**Should the task be changed or revised? What further actions are planned (if any)?** The task should be revised as follows: 7<sup>th</sup> Street Drainage Improvements: Phase 1 - Design Report, Plans and Specifications and Preliminary Cost Estimation.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? This action has not been initiated yet and needs to be included in the updated plan. It could be improved if grant funding is allocated for the design and construction efforts.

#### Additional comments or information:

#### Action #11 - Auburn Ravine at State Route 193 Bridge

**Progress to date:** None.

Were any significant barriers or problems encountered? Not really. Some history is necessary here. This action item refers to an item of maintenance listed as a complete because of the permitting issues involved. The SR-193 Bridge at Auburn Ravine includes chevron-shaped solid pier supports, which collect a large amount of debris and became obstructed prior to 2005. In 2005, the floods washed some of this debris away from the abutments; and the northern bay, which was completely obstructed before the event, became roughly two-thirds open. The City continues to monitor this bridge's function. However, this project is no longer anticipated to be required until the debris again clogs the northern bay.

What aspects made the action effective or successful? N/A.

Should the task be changed or revised? What further actions are planned (if any)? Yes. The task should be changed to an ongoing Operation and Maintenance Monitoring Task. After that, no further action is required at this time.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Please refer to the comment above.

#### Action #12 - Auburn Ravine at State Route 65 Bridge

**Progress to date:** None.

Were any significant barriers or problems encountered? Not really. Some history is necessary here. This action item refers to an item of maintenance listed as complete because of the permitting issues involved. Sedimentation and vegetation debris are known to collect at this bridge structure and need to be regularly maintained. In 2002, significant amounts of sedimentation and debris were removed from this bridge and the Union Pacific Railroad (UPRR) Bridge immediately downstream. In October 2005, vegetation debris was also removed. It was estimated that the combined improvements restored the soffit from 4,000 cfs prior to repair to a range of 7,000 to 8,000 cfs after repair. The 7,000 to 8,000 cfs range is close to full capacity of the soffit. The City continues to monitor this bridge as it is likely that similar repair will be necessary in the future.

What aspects made the action effective or successful? N/A.

Should the task be changed or revised? What further actions are planned (if any)? Yes. The task should be changed to an ongoing Operation and Maintenance Monitoring Task. After that, no further action is required at this time.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Please refer to the comment above.

**Additional comments or information:** 

Action #13 - Auburn Ravine at Joiner Parkway and Union Pacific Railroad Bridges

**Progress to date:** None.

Were any significant barriers or problems encountered? Please see Action 12 for corrections made at the UPRR Bridge. A second bridge deck has been added at the Joiner Parkway Crossing of Auburn Ravine. The Joiner Parkway Bridge at Auburn Ravine does not require these improvements; however, it was thought at one time that it might be a suitable relocation site for the NID high precision low (less than 500 cfs) flow gage. In order to do that, the invert would need to be hardened/stabilized and a vertical drop-type flow measurement gage and fish passage facilities would need to be added. The City is amenable to the current location of NID's gage, and will not be pursuing this project at this time. The City is aware that the ABCW is working with NID to relocate the gage independent of the City's efforts.

What aspects made the action effective or successful? N/A.

Should the task be changed or revised? What further actions are planned (if any)? This City is not pursuing this project at this time. Therefore, the task should be removed.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Please refer to the comment above.

#### Additional comments or information:

#### Action #14 - Ingram Slough - Orchard Creek Return Channel

**Progress to date:** Approximately 50 percent.

Were any significant barriers or problems encountered? This improved section of channel is only remaining improvement identified to be constructed in the South Lincoln Master Drainage Plan. Phase I of this project was constructed in 2002-03 which provided the flood protection necessary for the existing developed areas of the City. Phase II will not be constructed until the "Nader Ranch" project areas are approved for development and Phase II is necessary for the flood protection of that project. The project will be constructed by the future land developer.

What aspects made the action effective or successful? The fact it provides flood protection to existing developed areas of the City made it an important and effective project. The benefit of a good design was important as well.

Should the task be changed or revised? What further actions are planned (if any)? Keep the task as is, but push the end date out 5 years.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Include the action in the updated plan and push the end date out 5 years.

#### **Additional comments or information:**

#### Action #15 - Markham Ravine - Updated FEMA Analysis and Mapping

**Progress to date:** Less than 50 percent.

Were any significant barriers or problems encountered? Yes, primarily focused on funding. The City has been requiring individual projects to update the City's best available information, mapping and modeling. The City has required planned and completed projects to file LOMR's and CLOMR's to update FEMA maps as each site develops. The City's studies indicate that there is a need to perform a comprehensive update to the mapping; however, FEMA usually requires that there be a significant change in order to process such a study. The City has inquired with FEMA to see if they would like to perform the update with the DFIRM data collection process to simplify the update process. We are currently awaiting a reply.

What aspects made the action effective or successful? This is difficult to answer since the action is still underway.

Should the task be changed or revised? What further actions are planned (if any)? The task should remain as it is.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? The action should be included in the updated plan.

#### Additional comments or information:

Action #16 - Markham Ravine Drainage Improvements - Union Pacific Railroad & State Route 65 Crossings

**Progress to date:** None.

Were any significant barriers or problems encountered? Yes; the capacity of these existing structures is known to not provide the level of safety and flood protection that the City desires (100-year flood, minimum). It is known that some modifications of these structures will be necessary in the future, however, the exact scope of those improvements has not been defined. The City's 50-year General Plan will solicit design recommendations for these improvements through the Village Specific Plan process.

What aspects made the action effective or successful? Once the portion of SR 65 that is within the city limits reverts to city ownership, the City will be able to move forward with modifications to the structures.

Should the task be changed or revised? What further actions are planned (if any)? Outside of extending the completion date, the task should not be changed or revised.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? The action should be included in the updated plan.

Additional comments or information:

**Action #17 - Auburn Ravine Stream Restoration Projects (Analysis and Repairs)** 

Progress to date: None.

Were any significant barriers or problems encountered? Yes. It is known that farming and past urban encroachments have altered the normal stream operation of these systems, most specifically, in the reduced connectivity of the stream with the floodplains. This has and continues to result in geomorphological changes to the streambeds and systems. The City intends to study the effectiveness of restoring the streams and their floodplain connectivity as a means to restore stream function and stability, and increasing floodplain attenuation to mitigating development impacts. The City collects a fee to provide support, guidance, and review of project proposals. Actual project construction funding will be through grant and developer financed funding. Improvements will be proposed through a 50-year General Plan Village Specific Plan. This item refers to a program of review and repair the City performs prior to, and following major storm events. In 2005, substantial damage to stream stabilization measures occurred in the Auburn Ravine near SR-193. And over-bank damage occurred in the immaturely vegetated overbank area of Auburn Ravine at Lincoln Crossing. City crews responded to remove debris and perform emergency repairs. However, a larger scope of improvement needs has been identified, but limited funds are available for the repairs. The City is aware of this need and continues to search for a source of funds to enable permanent repairs to be completed.

What aspects made the action effective or successful? The project hasn't been established yet. We can't answer the question at this time.

Should the task be changed or revised? What further actions are planned (if any)? No.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes.

Additional comments or information:

Action #18 - Markham Ravine Streambed Restoration Projects (Analysis Only)

**Progress to date:** Please refer to Task 17.

Were any significant barriers or problems encountered? Please refer to Task 17.

What aspects made the action effective or successful? Please refer to Task 17.

Should the task be changed or revised? What further actions are planned (if any)? Please refer to Task 17.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Please refer to Task 17.

**Additional comments or information:** 

**Action #19- Coon Creek Streambed Restoration Projects (Analysis Only)** 

**Progress to date:** Please refer to Task 17.

Were any significant barriers or problems encountered? Please refer to Task 17.

What aspects made the action effective or successful? Please refer to Task 17.

Should the task be changed or revised? What further actions are planned (if any)? Please refer to Task 17.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Please refer to Task 17.

### **Town of Loomis**

Action #1 -Raise Flood-prone Houses along Loomis Creek.

**Progress to date:** 

Were any significant barriers or problems encountered?

What aspects made the action effective or successful?

Should the task be changed or revised? What further actions are planned (if any)?

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved?

## **City of Rocklin**

Action #1 – GIS Based Mapping of Pertinent Information that can be Used by all Departments and Agencies in the Development of Preplanning and During Emergency Incidents.

**Progress to date:** Multiple shape files/layers have been created since the implementation of this plan in 2005 for the Fire Department, Police Department, and Public Works.

Were any significant barriers or problems encountered? Funding shortfalls have created the largest barriers. The City no longer has a full-time GIS person.

What aspects made the action effective or successful? Layers have been created for fire hydrants and basic infrastructure that enable staff to quickly reference and map areas.

Should the task be changed or revised? What further actions are planned (if any)? Additional layers are being created for light poles and drainage infrastructure, however creating these layers is very time intensive. Staff is also working with local sewer and water municipalities to combined their GIS data to the City's to create a more comprehensive GIS network.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Creating the GIS network is an ongoing process. As resources are available to create new layers, the system will continue to become more dynamic and comprehensive.

**Additional comments or information:** This project will continue. Additional layers will be created depending on available resources.

Action #2 – Implementation of Storm Water Treatment Plan.

**Progress to date:** 

Were any significant barriers or problems encountered?

What aspects made the action effective or successful?

Should the task be changed or revised? What further actions are planned (if any)?

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved?

## **Forest Hill Fire Department**

#### Action #1 - Foresthill Biomass Project

**Progress to date:** A study was conducted by the Foresthill/Iowa Hill Fire Safe Council at several local festivals and gatherings to see how the local residents and visitors to the Foresthill Community would feel about a biomass Project here in the area. The majority felt that it would be acceptable. We also made contact with the local High School and Blaylocks as possible sites for a small plant.

Were any significant barriers or problems encountered? The problem areas for our group were we had no technical expertise when it came to biomass plants. The County has stepped in and is making some progress.

What aspects made the action effective or successful? Still to be determined.

Should the task be changed or revised? What further actions are planned (if any)? Placer County is now working on 2 Biomass locations, one in Truckee and one in Foresthill. We are willing to help in that effort but do not want to compete.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes. The County should determine how to move forward.

Additional comments or information:

Action #2 - Todd Valley Evacuation Plan - Foresthill Fire Protection District (FFPD) and Cooperative Agencies.

**Progress to date:** Completed September 2006.

Were any significant barriers or problems encountered? This project was very successful.

What aspects made the action effective or successful? All of the agencies involved worked together to complete a full evacuation plan for the Foresthill/Iowa Hill communities. The day the plan was completed the Ralston Fire broke. The plan was used during the evacuation of Michigan Bluff with great success.

Should the task be changed or revised? What further actions are planned (if any)? This task is complete; however we intend to review it on a yearly basis for updated information.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Task completed.

Action #3 - Assess and Enhance Foresthill Fire Protection District (FFPD) New Subdivision, Hazard Fuels Clearing, and Maintenance Ordinance. Put Programs in Place with Homeowners Associations in CC&R's and Maintenance Contracts.

**Progress to date:** The Foresthill Fire Protection District has implemented a program for all new developments for hazard fuel clearing and shaded fuel breaks. The hazardous fuels are removed during the development process. The shaded fuels breaks are identified on the perimeter of the development. The width of the shaded fuel breaks are typically 100' but maybe greater given the slope. The District has adopted the "Standards for Hazardous Fuel Reduction for Nevada-Yuba-Placer Unit," and PRC 4290, 4291.

Condition of approval from the district for the subdivision required the formation of a County Service Area Zone of Benefit concurrent with the approval of the final map of the subdivision as a mechanism to fund ongoing maintenance of emergency access fuel reduction and fire breaks related to fire protection needs of the subdivision. The Fire District has agreed to provide for the maintenance of the emergency accesses fuel reduction and fire breaks in exchange for receiving the funding established under ZOB No.178. The Foresthill/Iowa Hill Fire Safe Council manages the maintenance of the shaded fuel breaks. The shaded fuel breaks are assessed on annual basis to determine the maintenance needs, and then solicited bids from qualified contractors.

Were any significant barriers or problems encountered? Largest barrier has been making sure the development projects get to the District for approval.

What aspects made the action effective or successful? This has been a very effective way to guarantee defensible space and maintenance of fuel breaks in residential areas.

Should the task be changed or revised? What further actions are planned (if any)? No need to revise. Continue working with developers and residence to make Foresthill a firesafe community.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes! This is an ongoing project that will be updated as needed.

**Additional comments or information:** 

#### Action #4 - Todd Valley Shaded Fuel Break

**Progress to date:** We have applied for grants through the California Firesafe Council, but to date there has been no word on their progress. Several property owners in the area have successfully applied for Pro 40 funding and portions of the fuel break have been completed through this process.

Were any significant barriers or problems encountered? Largest barrier has been funding of the project.

What aspects made the action effective or successful? Continued education of the property owners in the area by the Firesafe Council, plus keeping all of the agencies working together,

made it possible for property owners to create shaded fuel breaks on properties within the Todd Valley Shaded Fuel Break area. This has reduced the amount of funding needed to complete the fuel break.

Should the task be changed or revised? What further actions are planned (if any)? No need to revise. We will continue to search for funding to complete project.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes! No improvement needed.

### **North Tahoe Fire Protection District**

### Action #1 - Fuels Management Projects identified in CWPP

**Progress to date:** Community chipping services expanding each year. Rocky Ridge, Chinquapin and Kingswood fuels reductions projects.

Were any significant barriers or problems encountered? Funding and multiple land ownership problems with project plots.

What aspects made the action effective or successful? Public education and county support for biomass disposal.

Should the task be changed or revised? What further actions are planned (if any)? Updated priorities with more community input. Re-examine plots and address parcels not included in original plan to help eliminate potential holes in treatment and protection.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes. Continue addressing CWPP priorities within the NTFPD boundaries. Work with allied agencies, bi-state commission, and USFS.

# **Placer County Water Agency**

Action #1 – Maintain and Enhance Canal System by Converting Earthen Canals to Gunite Lined Canals In Critical Areas.

**Progress to date:** For 2005 and 2006 PCWA gunited 5.85 miles of canals at a cost of \$2,675,242. For 2007 we estimate to do maintenance/enhancement to 3.6 miles of canals at a cost of \$1.7 million.

Were any significant barriers or problems encountered? Budget constraints.

What aspects made the action effective or successful?

Should the task be changed or revised? What further actions are planned (if any)? Annual maintenance is required for existing gunite for crack repairs and ongoing conversion from earthen to gunite canals.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? This is an ongoing action requirement.

**Additional comments or information:** 

**Action #2 – Replace Wooden Flume Structures with Steel Structures** 

**Progress to date:** Not yet started

Were any significant barriers or problems encountered? Yes. Due to budget issues this has been moved to a 2009 start date.

What aspects made the action effective or successful?

Should the task be changed or revised? What further actions are planned (if any)?

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes

Additional comments or information:

**Action #3 - De-silt Reservoirs.** 

**Progress to date:** Several reservoirs have been de-silted in 05/06.

Were any significant barriers or problems encountered? We have found one site where construction access is an issue tied into land development.

What aspects made the action effective or successful?

Should the task be changed or revised? What further actions are planned (if any)?

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes, reservoirs need to be de-silted every few years based on accumulation of silt material.

#### **Placer Hills Fire Protection**

Action #1 - Assess and Enhance Place Hills FDP Onsite Water Requirements for Miner Lot Splits.

Progress to date: Limited.

Were any significant barriers or problems encountered? Yes, Placer County does not track miner splits.

What aspects made the action effective or successful? County now evaluating.

Should the task be changed or revised? What further actions are planned (if any)? No change.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes.

Additional comments or information:

**Action #2 - Annual Defensible Space Inspections** 

**Progress to date:** 3700 hours in district. We inspected approximately 2200.

Were any significant barriers or problems encountered? Funding now

What aspects made the action effective or successful? Funding inspections.

Should the task be changed or revised? What further actions are planned (if any)? Funding for inspections must be found yearly

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Yes.

### **Squaw Valley Public Service District**

Action #1 - Squaw Valley Fire Department - Increase Staffing

**Progress to date:** Completed.

Were any significant barriers or problems encountered? No.

What aspects made the action effective or successful? Additional staffing has enabled Squaw Valley Fire Department to provide Advanced Life Support and to have a fully-staffed, four person engine company response at all times.

Should the task be changed or revised? What further actions are planned (if any)? No.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? Completed.

Additional comments or information: None.

Action #2 - Squaw Valley Fire Department - Community-Wide Emergency Notification System.

**Progress to date:** Contacted potential vendors, applied for grant.

Were any significant barriers or problems encountered? Grant denied.

What aspects made the action effective or successful? N/A

Should the task be changed or revised? What further actions are planned (if any)? We see no reason to change the task – the need for a community-wide emergency notification and information distribution system (which is not telephone based) is, we believe, well established. We will continue to seek grant funding for this project when the opportunities present.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? We believe that this sort of notification system is potentially beneficial and should be included in the updated plan. The Angora and Washoe Fires provided excellent examples of the need for emergency response agencies to have a method for conveying information to affected populations. The existing channels available to us are often unavailable on weekends or lack the ability to provide timely, accurate, and updateable information to residents and visitors. We are investigating low power radio broadcasting as an alternative to the roadside message boards proposed in the original plan.

# **Sierra Joint Community College District**

#### Action #1 - Sierra College - Fire Prevention in 100+ Acres Nature Area

**Progress to date:** Objectives (2) to reduce and manage fuel, (3) to create defensible space, and (4) to create fire breaks are completed. However, objective (1) to establish an on-going program for fire prevention is not working.

Were any significant barriers or problems encountered? Existing operations and maintenance staff is too busy, or the project is low on their priority, to maintain the area once cleared as planned.

What aspects made the action effective or successful? Low lying branches and bushes (fire ladders) have been cleared and remain so.

Should the task be changed or revised? What further actions are planned (if any)? No. We should persist with Maintenance and Operations department to establish a maintenance schedule and stick with it.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? The action is partially completed but the action should remain on the updated plan as a reminder to Sierra College.

#### Additional comments or information:

Action #2 - Sierra College – Improved Emergency Response Capabilities Through and Upto-date Crisis Response Plan and Multi-jurisdictional Training Drills

**Progress to date:** Sierra College provides on-going emergency training to key staff, keeps ICT up-to-date, and continues to revise its Crisis Response Plan. Sierra College participated in regional drill and conducts internal drill at its locations.

Were any significant barriers or problems encountered? Budget to hire professional trainers; time required of its staff; communication and understanding of requirements and definitions from multiple agencies (Community College Chancellors' Office; CAL EMA; FEAM; DHS).

What aspects made the action effective or successful? Persistence; asking questions; push, push, push.

Should the task be changed or revised? What further actions are planned (if any)? No. Keep on the effort; revise the list of sub-tasks when needed.

If the action has not been completed, should it be included in the updated plan? If yes, how could it be improved? It has been partially completed and always will be partially completed. This is a never ending effort.